

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An expandable endovascular prosthesis comprising:
 - a body having a proximal end and a distal end;
 - a first expandable portion disposed between the proximal end and the distal end, the first expandable portion being expandable from a first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the first expandable portion against a vascular lumen;
 - a second expandable portion attached to the first expandable portion, the second expandable portion being expandable from an a second, unexpanded state to a second expanded state upon expansion of the first expandable portion, the second expandable portion covering a greater surface area in the second expanded state than in the second unexpanded state; and
 - a covering material having a first surface area disposed over a second surface area of the second expandable portion, the first surface area being greater than the second surface area in the second unexpanded state of the second expandable portion.

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2. (Original) The prosthesis defined in claim 1, wherein the second expandable portion comprises a porous surface.

3. (Original) The prosthesis defined in claim 2, wherein the covering layer covers at least a portion of the porous surface.

4. (Original) The prosthesis defined in claim 1, wherein the covering layer comprises an elastic material capable of stretching upon expansion of the second expandable portion.

5. (Original) The prosthesis defined in claim 2, wherein the porous surface is defined by a plurality of interconnected struts.

6. (Original) The prosthesis defined in claim 5, wherein the plurality of interconnected struts comprises a plurality of first longitudinals.

7. (Original) The prosthesis defined in claim 6, wherein the plurality of first longitudinals are connected to one another by a plurality of second struts disposed at an acute angle with respect to the first longitudinals.

8. (Original) The prosthesis defined in claim 6, wherein at least some of the longitudinals are connected to a first edge of the first expandable portion.

9. (Original) The prosthesis defined in claim 8, wherein the first edge comprises a circumferentially meandering pattern.

10. (Original) The prosthesis defined in claim 9, wherein the circumferentially meandering pattern comprises a plurality of apices.

11. (Original) The prosthesis defined in claim 10, wherein the plurality of apices comprise a first set of convex apices and a second set of concave apices.

12. (Original) The prosthesis defined in claim 11, wherein the convex apices and concave apices alternate with respect to one another.

13. (Original) The prosthesis defined in claim 11, wherein at least two longitudinals are connected to an adjacent pair comprising a convex apex and concave apex.

14. (Original) The prosthesis defined in claim 5, wherein the plurality of interconnected struts further comprises a plurality of second longitudinals which are unconnected to the first expandable portion.

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15. (Original) The prosthesis defined in claim 1, wherein the first expandable portion is tubular.

16. (Original) The prosthesis defined in claim 1, wherein the second expandable portion is independently moveable with respect to the first expandable portion.

17. (Original) The prosthesis defined in claim 1, wherein the body comprises a third expandable portion connected to the first expandable portion which is expandable from a first, unexpanded state to a second, expanded state with a radially outward force thereon.

18. (Original) The prosthesis defined in claim 17, wherein the first expandable portion and the third expandable portion are connected to one another by at least one strut.

19. (Original) The prosthesis defined in claim 1, wherein the first expandable portion comprises a porous surface.

20. (Original) The prosthesis defined in claim 17, wherein the third expandable portion comprises a porous surface.

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21. (Original) The prosthesis defined in claim 17, wherein the first expandable portion and the third expandable portion each comprise a porous surface.

22. (Original) The prosthesis defined in claim 1, wherein the first expandable portion and the second expandable portion are integrally formed.

23. (Original) The prosthesis defined in claim 17, wherein the first expandable portion, the second expandable portion and third expandable portion are integrally formed.

24. (Original) The prosthesis defined in claim 1, wherein the body comprises a substantially tubular shape.

25. (Original) The prosthesis defined in claim 1, wherein the body comprises a substantially porous surface.

26. (Original) The prosthesis defined in claim 1, wherein the body is constructed from a plastically deformable material.

27. (Original) The prosthesis defined in claim 1, wherein the body is constructed from a self-expanding material.

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28. (Original) The prosthesis defined in claim 1, wherein the body is constructed from a biodegradable material.

29. (Original) A method for endovascular blocking of an aneurysmal opening with a prosthesis comprising: a body having a proximal end and a distal end, a first expandable portion disposed between the proximal end and the distal end, the first expandable portion being expandable from a first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the first expandable portion against a vascular lumen, a second expandable portion attached to the first expandable portion; the second expandable portion being expandable from a second unexpanded state to a second expanded state upon expansion of the first expandable portion, the second expandable portion covering a greater surface area in the second expanded state than in the second unexpanded state, and a covering material having a first surface area disposed over a second surface area of the second expandable portion, the first surface area being greater than the second surface area in the second unexpanded state of the second expandable portion, the method comprising the steps of:

disposing the prosthesis on a catheter;

inserting the prosthesis and catheter within a body passageway by catheterization of the body passageway;

translating the prosthesis and catheter to a target vascular lumen at which the aneurysm opening is located;

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exerting a radially outward expansive force on the first expandable portion such that the tubular first expandable portion is urged against the target body passageway;

causing expansion of the first expandable portion to expand the second expandable portion to increase the first surface area; and

urging the second expandable portion against the aneurysmal opening thereby blocking the aneurysmal opening.

30. (Original) A method for producing a prosthesis comprising: a body having a proximal end and a distal end, a first expandable portion disposed between the proximal end and the distal end, the first expandable portion being expandable from a first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the first expandable portion against a vascular lumen, a second expandable portion attached to the first expandable portion; the second expandable portion being expandable from a second, unexpanded state to a second, expanded state upon expansion of the first expandable portion, the second expandable portion covering a greater surface area in the second expanded state than in the second unexpanded state; and a covering material having a first surface area disposed over a second surface area of the second expandable portion, the first surface area being greater than the second surface area in the second unexpanded state of the second expandable portion, the method comprising the steps of:

- (i) expanding the second expandable portion;
- (ii) affixing the covering material to the second expandable portion; and
- (iii) compressing the second expandable portion.